



# **Video Analytics Solutions**

Next-Generation AI Plugins, Neural Network Architectures,  
and Automated Incident Tracking

# WHY CHOOSE 6SS ANALYTICS?

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## **Cost-Effective & Scalable**

6SS delivers high-grade software with a total cost of ownership (TCO) 50% lower than competitors, without sacrificing analytics quality or throughput accuracy. Our systems easily scale from local private setups to metropolitan safe-city environments.

## **Private, Flexible & Adaptive**

We enforce rigorous on-premises security: 6SS never transmits or hosts institutional surveillance feeds on external servers. Backed by in-house created algorithms, modular custom implementations, and readily available technical support.

# OUR VIDEO ANALYTICS DIRECTORY

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## Transportation

Optimize cargo logistics, parking terminals, speed metrics, vehicle trajectory paths, and dynamic road flow diagnostics.



## Safety & Security

Deploy high-speed face recognition, crowd volume triggers, restricted zones monitoring, and loitering alarms.



## Prevention & Compliance

Ensure workplace safety standards by tracking PPE violations, early smoke/fire anomalies, and smoke/vape indicators.

# ANPR & RAIL CARGO TRACKING

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## **6SS ANPR (License Plates)**

Recognizes license plates globally across 100+ countries with 99% accuracy—even when plates are blurred, dirty, or damaged. Operates with frame recognition speeds of 8–30ms while logging speed limits and triggers.

## **ACCR Container & Wagon ID**

Automates shipping logistics by capturing cargo container codes and identifying UIC registration numbers on moving freight wagons and locomotives. Supports custom whitelists and alerts.

# PARKING & CROWD CONTROL

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## Smart Parking

Audits localized space capacity dynamically to identify open vs. occupied stalls. Automatically flags unauthorized parking durations, lane blockages in cargo areas, and speeding events on service roads.

## Crowd Density Estimation

Calculates live crowd counts in real-time to prevent structural blockages. Sends automatic control room notifications when cluster sizes cross your configured safety thresholds.

# BIOMETRIC ID & PROFILE EXTRACTION

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## 6SS GetFace Facial ID

Performs rapid biometric searches under 0.1 seconds across reference databases of over 1 million records. Keeps accurate detection intact despite changing lighting, caps, beards, or face masks.



## Demographic Analytics

Identifies gender, age groups, and expression cues dynamically. Supports unlimited whitelists, VIP visitor notifications, blacklisted profile alarms, and deep integration with physical door locks.

# IVA VEHICLE MODEL

## Smarter Traffic Tracking

Classify and trace over 50 moving and stationary object classes—including cars, heavy trucks, transit buses, and bicycles.

Configure rule-based alerts for vehicle direction compliance, line crossing violations, loitering limits, and suspicious vehicle paths to protect perimeter security in industrial spaces.

### Vehicle Details

**Models:**  
Toyota (99.97) - Land Cruiser

**Tags:**  
SUV/crossover (99.82)

**Orientation:**  
Front - 266.86? (99.99)

### License Plate Details

License Plate: M5557  
License Plate Formatted: M 5557  
Origin:  
Detection Confidence: 98.57  
OCR Confidence: 100.00  
Character Height: 39.00 pixels  
Occluded: No (1.00)

### Direction Details

↑ North, confidence 0.00  
↗ North East, confidence 0.00  
→ East, confidence 0.00  
↘ South East, confidence 0.00  
↓ South, confidence 0.00  
↙ **South West, confidence 62.57**  
← West, confidence 0.00  
↖ North West, confidence 0.00

### Type Details

**Detection Confidence: 95.76**  
**Type:**  
🚗 **Car, confidence 86.16**  
🚚 Truck, confidence 0.00

Enroll

Clear

☒ Auto Scroll

None

**10:49:19 Subject 211, Disappeared**

Detection Confidence: 96.40

🚗 Car (82.36)

● Blue (50.50)

License plate: 73082A

Origin:

**10:49:19 Subject 212, Disappeared**

Detection Confidence: 95.76

🚗 Car (86.16)

● Gray (53.46)

License plate: M5557

Origin:

**10:49:19 Subject 213, Disappeared**

# IVA HUMAN ATTRIBUTE SEARCH

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## Metadata Filtering

Quickly search for specific individuals across large scale indoor or outdoor facilities. Isolate records by filtering key attributes such as top/bottom clothing colors, gender, age, hats, bags, hair length, and glasses.



## Forensic Investigations

Reconstruct an individual's movement path across a multi-camera layout to simplify incident mapping. Dramatically cuts verification times during emergency searches (e.g., lost children inside major retail terminals).

# HAZARD PREVENTION PLUGINS

Ensuring safety standards and rapid environmental response:

-  **PPE Vest & Helmet Alerts:** Automatically triggers control alarms if workers are identified without helmets, vests, or safety gloves.
-  **Smoke & Fire Alarms:** Flags early flame and smoke presence in open environments, logging exact location markers.
-  **Smoking & Vaping Tracker:** Isolates the micro-signature of cigarettes or vapes at face level to enforce hazard compliance.



# SPATIAL MAPPING & HEATMAPS

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## **Accumulative Heatmaps**

Analyzes and visualizes spatial dwell-times. Highlights high-traffic zones inside malls, retail displays, and transport corridors, allowing managers to optimize layout structures and verify ad impressions.

## **Live Occupancy Polygons**

Overlays live density maps over 2D building drafts and 3D campus photogrammetric mockups. Automatically signals staff in case of over-occupancy or unexpected after-hours movement patterns.

# MULTI-LEVEL SYSTEM ACCESS

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## Role-Based Permissions

Manage user roles securely by configuring individualized access boundaries across camera streams, analytic results, settings databases, and white/black profiles list managers.



## Microsoft AD Integration

Ensures seamless institutional administration by supporting direct user account synchronization via LDAP / Active Directory servers directly into your active 6SS surveillance environment.

# Any Questions?

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